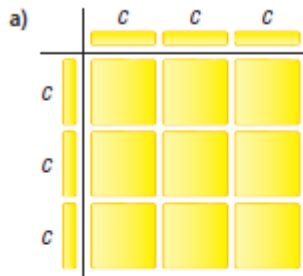
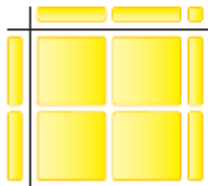


4. Write the multiplication sentence modelled by each set of algebra tiles.

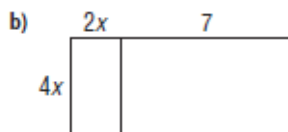
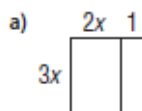


6. Which of these multiplication sentences is modelled by the algebra tiles below?

- a) $2n(n + 2)$
 b) $2(2n^2 + 1)$
 c) $2n(2n + 1)$



7. Write the multiplication sentence modelled by each rectangle.



12. Use any strategy to determine each product.

- a) $2x(x + 6)$
 b) $3t(5t + 2)$
 c) $-2w(3w - 5)$
 d) $-x(2 + 8x)$
 e) $3g(-5 - g)$
 f) $(4 + 3y)(2y)$
 g) $(-7s - 1)(-y)$
 h) $(-3 + 6r)(2r)$

14. Here is a student's solution for this question:

Multiply: $(-2d + 9)(-3d)$

$$\begin{aligned} &(-2d + 9)(-3d) \\ &= (-2d)(-3d) - (9)(-3d) \\ &= -6d^2 - (27d) \\ &= -6d^2 - 27d \end{aligned}$$

Identify the errors in the solution, then write the correct solution.

20. Determine each product.

- a) $3m(2n + 4)$
 b) $(-5 + 3f)(-2g)$
 c) $7m(-6p + 7m)$
 d) $(-8h - 3k)(4k)$
 e) $(-2t + 3r)(4t)$
 f) $(-g)(8h - 5g)$

22. Determine a polynomial for the area of this shape. Justify your answer.

